

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

### LISTING OF CLAIMS:

1. (currently amended): A method of transmitting CDMA messages between a base transceiver station and user terminals, wherein transmission between said base transceiver station and said user terminals experiences interference as a function of a geographical location of said user terminals with respect to said base transceiver station, said method comprising:

~~-coding symbols of messages transmitted to certain a first user terminals are coded~~  
terminal with a coding sequence of  $2N$  bits to produce sequences of  $2N$  chips; and

~~-the chips are transmitted;~~

~~characterized in that:~~

~~-coding symbols of other messages transmitted to certain other a second user terminals are coded~~  
terminal with a coding sequence of  $k2N$  bits to produce sequences of  $k2N$  chips, where  $k$  is an integer greater than 1, when interference at said second user terminal is higher than interference at said first user terminal, or when interference at said second user terminal is expected to be higher than interference at said first user terminal.

2. (original): A method according to claim 1, characterized in that at least two symbols of said other messages are transmitted simultaneously.

3. (original): A method according to claim 2, characterized in that k symbols of said other messages are transmitted simultaneously.

4. (previously presented): A method according to claim 1, characterized in that:

- a radiation cell of a base transceiver station is divided into sectors,
- a common carrier frequency is used for all the sectors of the cell,
- coding sequences are divided into subsets (S1, S2), and
- different subsets are assigned to user terminals which are located in adjoining or

contiguous sectors.

5. (previously presented): A method according to claim 1, characterized in that different base transceiver stations of a cellular system transmit chips on a common carrier frequency and with a common pass-band.

6. (previously presented): A method according to claim 1, characterized in that the symbols of the chips are coded by random bit sequences (PN).

7. (previously presented): A method according to claim 1 characterized in that a single sequence is concatenated with a repetition of that single sequence or with a complementary single sequence to constitute a coding sequence  $k2N$ .

8. (previously presented): A method according to claim 1, characterized in that decoding subsystems are used simultaneously in a user terminal  $k$  to decode in parallel  $k$  symbols of a message transmitted to that user.

9. (previously presented): A method according to claim 1, characterized in that a symbol is decoded in a user terminal with a decoding sequence of length  $k2N$ .

---